



THE PRIME EXAMINATIONS 2024

P.6 BEGINNING OF TERM II

MATHEMATICS

Time allocated 2 hours 30 minutes



FOR
WELL EXPLAINED LESSON VIDEOS
WITH TESTS BY EXPERT TEACHERS

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READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This paper has **two** sections: A and B. Section A has 20 questions (40 Marks) and Section B has 12 questions. (60 Marks)
2. Answer **ALL** questions. All the working for both sections A and B must be shown in the spaces provided.
3. All working **must** be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than on graphs and diagrams will **not** be marked.
4. **No calculators** are allowed in the examination room.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
6. Do not fill anything in the table indicated
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THE PRIME; SCHEMING FRAME WORKS, PUPIL'S WORKBOOKS, LESSON COURSE BOOKS, HOLIDAY PACKAGES
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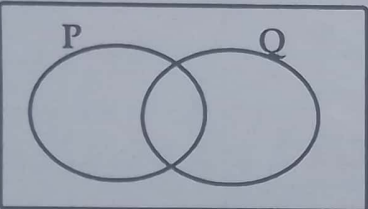
QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

APPROVED

Consultant
Mathematics Department (PEC)

Organised by: PRIME EDUCATIONAL CONSULT @2024 Kampala

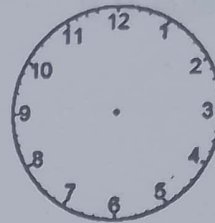
Turn Over

1	Work out 4×5 .	2	Change 49 to Roman numerals.
3	Subtract: $\frac{2}{3} - \frac{1}{4}$	4	Solve: $\frac{P}{3} = 3$
5	Change 800m to km	6	Find the value of 4 in the number 243 _{five} .
7	Shade set $(P \cap Q)^1$ on a Venn diagram. 	8	Find the range of; 6, 0, -9, 5 and 3.
9	The cost of 4 pens is sh.1600. Find the cost of 7 pens.	10	Find the missing number in the series. 4, 8, 2, 4, ____, 2
11	A forty-five minute lesson ended at 9:10a.m. At what time did it start?	12	Find the square of 16.

13 Using a pencil, a ruler and a protractor, draw an angle of 120° .

14 Add: $5.049 + 1.021$

15 Show a quarter to 4 on the clock face.



16 List down all the factors of 18.

17 If set $R = \{3, 78\}$, list down all the subsets in set R .

18 Without dividing, show if 30 is exactly divisible by 3.

19 Round off 739 to the nearest hundreds.

20 A car moved a distance of 90km at a speed of 60km/hr. How long did it take to cover the journey?

Section B (60 marks)

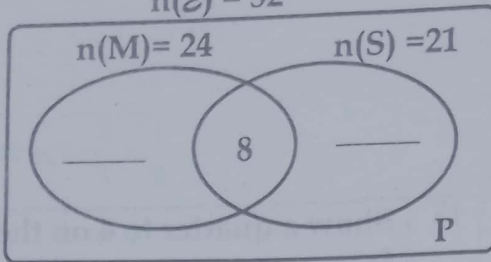
21

In a school of 52 teachers, 24 teach Mathematics (M), 21 teach Science (S), 8 teach both subjects while P teach none of the mentioned subjects.

(a) Complete the Venn diagram below.

(02 marks)

$$n(E) = 52$$



(b) Find the value of P.

(03 marks)

22

Ikondere went for shopping and bought the following.

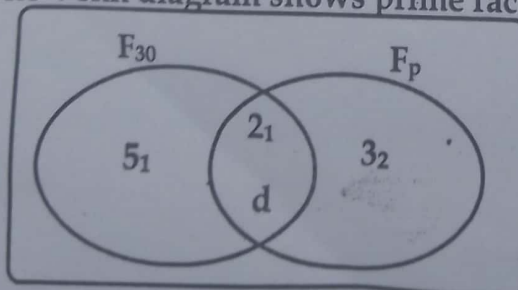
(05 marks)

2 bars of soap at sh.6500 a bar.
4 pens at sh.600 each pen.
500gm of sugar at sh.5000 per kg.
3 books at sh.4500.

(a) Calculate her total bill.

23

The Venn diagram shows prime factors of P and 30.



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(a) Find the value of;
(i) d (ii) p (02 marks each)

(b) Work out GCF of F_{30} and F_p . (01 mark)

24 Given the numeral 4059.
(a) Write the numeral above in words. (02 marks)

(b) Express the 4059 in expanded form using exponents. (02 marks)

(c) Write the place value of 4 in the number 4059. (02 marks)

25 (a) Work out: Hr min (02 marks)

$$\begin{array}{r} 2 \quad 37 \\ -1 \quad 48 \\ \hline \end{array}$$

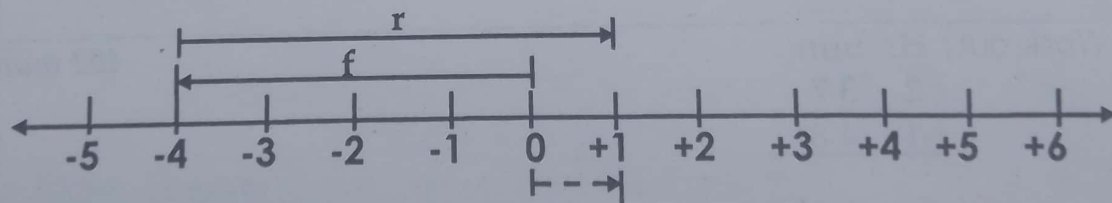
(b) A cyclist moved for 3 hours at a speed of 56km/hr. Calculate the distance covered. (02 marks)

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- 26 Using a pair of compasses, a ruler and a sharp pencil only, construct a rectangle NJHR where $NJ = 6\text{cm}$ and $JH = 4\text{cm}$. (04 marks)

- 27 What are the 3 consecutive odd numbers whose total is 45? (05 marks)

- 28 Use the number line below to answer the questions that follow.



(a) Write the integers represented by the arrows. (01 mark each)

(i) $r =$ _____ (ii) $f =$ _____ (iii) $d =$ _____

(b) Write the mathematical statement represented by the number line. (02 marks)

29 (a) Solve: $2f - 5 = 9$ (02 marks)

(b) Given that $a = 6$, $f = 3$ and $w = 4$. (02 marks)
Find the value of;
(i) $a + f + w$ (02 marks)

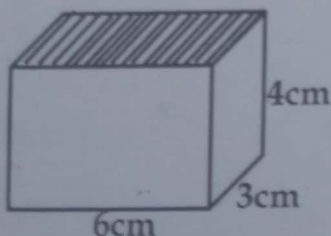
(ii) $a + f w$ (01 mark)

30 (a) Find the next two equivalent fractions of $\frac{3}{8}$. (02 marks)

(b) Write $\frac{1}{8}$ in words. (01 mark)

(c) Work out of $\frac{2}{3}$ of 81 books. (02 marks)

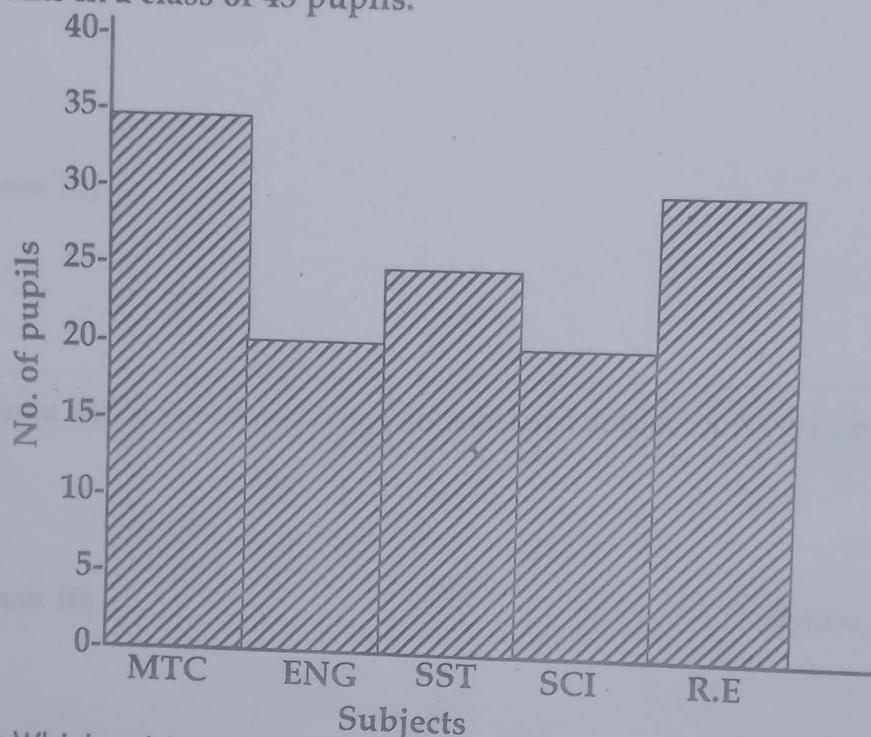
31 Use the shape below to answer the questions that follow.



(a) Name the above figure. (01 mark)

- (b) Find the number of;
 (i) edges _____ (ii) vertices _____ (01 mark each)
 (c) Workout the volume of the shape above. (02 marks)

32 The graph below shows the number of pupils who passed end of term exams in a class of 45 pupils.



- (a) Which subject was best performed? (01 mark)
 (b) How many pupils passed R.E? (01 mark)
 (c) Find the average number of pupils who passed all the first five subjects. (03 marks)